

Water-Data Report CA-2005

11208730 EAST FORK KAWEAH RIVER NEAR THREE RIVERS, CA

Tulare Lake Basin

LOCATION.--Lat 36°27'06", long 118°47'18" referenced to North American Datum of 1927, in NW ¼ sec.14, T.17 S., R.29 E., Tulare County, Hydrologic Unit 18030007, at Conduit No. 1 diversion dam, 1.9 mi downstream of Grunigen Creek confluence, and 8.2 mi east of Three Rivers.

DRAINAGE AREA.--85.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1952 to September 1955, October 1957 to September 1978, October 1993 to current year. October 1962 to September 1978, October 1993 to September 2002, published as river only, and river and conduit combined. Prior to October 1962, combined only.

CHEMICAL ANALYSES: Water years 1968-71.

WATER TEMPERATURE: Water years 1968-76.

SEDIMENT DATA: Water years 1968-71.

GAGE.--Water-stage recorder and acoustic-velocity meter. Elevation of gage is 2,500 ft above NGVD of 1929, from topographic map. May 15, 1952, to Sept. 30, 1955, at site 200 ft downstream at different datum.

REMARKS.--East Fork Kaweah River Conduit No. 1 diverts up to 30 ft³/s from left bank of river near diversion dam. Water is returned to Middle Fork Kaweah River, 1.9 mi downstream from mouth of East Fork. The record of combined discharges of river and conduit was discontinued September 2002 when the conduit gage location was moved from near the point of diversion (station 11208720) to near the powerplant (station 11208800). The conduit-flow records from those two locations may not be equivalent due to gains or losses along the conduit. See schematic diagram of Kaweah River Basin.

COOPERATION.--Records were provided by Southern California Edison Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 298.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft³/s, Dec. 6, 1966, gage height, 21 ft, from floodmarks, from rating curve extended above 850 ft³/s, on basis of critical-depth measurement of peak flow over diversion dam; no flow Jan. 22, Oct. 18-20, 1962.

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**DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6.3	e8.1	7.2	27	40	44	107	240	1,060	390	56	12
2	6.6	e8.4	7.1	20	37	37	113	249	1,080	388	52	11
3	6.9	e9.1	7.0	17	34	35	115	281	995	364	e46	10
4	6.6	e8.8	6.8	16	33	37	118	298	942	337	e45	9.8
5	e6.3	e9.1	7.0	12	33	35	109	345	901	324	e45	9.8
6	e6.3	e8.8	6.9	10	33	35	128	321	710	315	e45	9.6
7	e6.3	e8.4	16	24	31	37	164	296	517	301	e68	15
8	e6.3	11	13	136	28	43	160	297	478	296	e87	16
9	e6.5	12	11	415	27	53	153	353	438	279	e63	16
10	e6.9	12	11	218	26	64	135	307	467	258	e54	17
11	e6.9	12	18	254	30	73	138	293	602	256	e51	17
12	e6.9	12	21	115	38	85	151	290	672	245	e37	17
13	e6.9	12	19	83	38	98	169	307	777	225	e37	15
14	e6.9	12	17	67	34	95	180	348	898	217	e37	14
15	e6.9	9.1	13	58	34	85	195	424	900	223	e37	13
16	e5.5	6.9	8.4	57	36	75	222	677	767	208	e45	13
17	e9.1	6.8	7.3	56	36	68	258	538	581	191	e38	13
18	e16	6.5	6.9	52	48	62	267	561	472	174	e34	13
19	e17	6.9	9.2	46	46	102	258	679	415	163	27	11
20	e65	7.0	11	50	58	117	232	789	411	151	25	13
21	e16	7.6	9.2	52	61	89	220	812	454	151	22	20
22	e9.1	7.2	6.4	54	55	286	233	986	473	145	20	14
23	e9.1	7.7	5.9	55	47	298	220	1,130	443	136	19	12
24	e9.1	7.7	6.2	53	47	195	226	1,140	413	136	18	11
25	e9.1	7.7	5.9	52	42	148	205	1,210	379	117	16	11
26	e9.1	7.7	5.7	73	38	131	208	1,250	366	95	16	14
27	e8.9	24	7.5	68	37	129	225	1,280	363	82	15	31
28	e8.4	18	17	63	49	161	239	1,270	366	77	14	19
29	e8.4	7.9	20	59	---	127	219	1,130	375	72	13	15
30	e8.4	7.7	21	47	---	116	225	965	384	66	13	12
31	e8.4	---	79	43	---	107	---	1,010	---	60	13	---
Total	316.1	290.1	407.6	2,352	1,096	3,067	5,592	20,076	18,099	6,442	1,108	424.2
Mean	10.2	9.67	13.1	75.9	39.1	98.9	186	648	603	208	35.7	14.1
Max	65	24	79	415	61	298	267	1,280	1,080	390	87	31
Min	5.5	6.5	5.7	10	26	35	107	240	363	60	13	9.6
Ac-ft	627	575	808	4,670	2,170	6,080	11,090	39,820	35,900	12,780	2,200	841

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.53	13.9	36.8	59.7	54.5	76.6	155	359	346	125	25.6	10.4
Max	22.4	150	594	674	219	251	350	944	1,017	775	148	73.9
(WY)	(1970)	(2003)	(1967)	(1997)	(1969)	(1995)	(1969)	(1969)	(1998)	(1998)	(1967)	(1978)
Min	0.32	0.48	0.23	0.55	0.37	2.28	45.2	54.8	21.3	0.85	0.34	0.23
(WY)	(1959)	(1963)	(1959)	(1961)	(1961)	(1977)	(1977)	(1977)	(1976)	(1959)	(1955)	(1953)

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SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1952 - 2005	
Annual total	22,765.6		59,270.0			
Annual mean	62.2		162		105	
Highest annual mean					300	1969
Lowest annual mean					15.9	1977
Highest daily mean	326	May 4	1,280	May 27	8,000	Dec 6, 1966
Lowest daily mean	5.5	Sep 8	5.5	Oct 16	0.00	Jan 22, 1962
Annual seven-day minimum	6.5	Oct 3	6.5	Oct 3	0.10	Sep 28, 1953
Maximum peak flow			1,540	May 27	13,000	Dec 6, 1966
Maximum peak stage			7.21	May 27	21.00	Dec 6, 1966
Annual runoff (ac-ft)	45,160		117,600		75,990	
10 percent exceeds	197		440		308	
50 percent exceeds	16		47		23	
90 percent exceeds	6.9		7.6		0.80	

